Heat Treatment of Carburized Gears BY RLE Question Question Does heat treater have an inhouse metallurgical laboratory? Does heat treater have a staff metallurgist? Does heat treater have a staff metallurgist? Does heat treater have a technician to prepare and analyze heat treat coupons? Does the laboratory conduct tests to ensure that the gears conform to specifications? Does the laboratory prepare reports that document the metallurgist later results? Are thermocouples properly maintained and checked against a calibration standard that is traceable to the National Bureau of Standards? Do thermocouples accurately measure the temperature of the gears? Is the carbon potential accurately minimal accurately maintained and monitored? Is the case carbon content tested with cupons? Are gears loaded in the furnace in a way that prevents sagging at the carburzing temperature? Are gears spaced so that teeth do not touch each other, baskets, or fixtures? Are quench tanks large enough for the gears? Is quenchant is large enough for the gears? Is quenchant circulated with pumps? Is a minimum flow of 1 (one) gpm/lb of steel provided? Has quench tanks large enough for the gears? Is quenchant in and around	GEARTECH	CHECKLIST		ST	No. CK8300	SHEET 1 OF 2
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				CKD JRM	DATE 3/23/98
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coupons conform to the					
following:					
QP8301 Procedure for					
preparing representative test					
coupons					
QP8302 Inspection of surface	е				
hardness					
QP8303 Inspection of case					
depth					
QP8304 Inspection of core					
hardness					
QP8305 Inspection of case					
microstructure					
QP8306 Inspection for					
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QP8307 Inspection for					
decarburization					
QP8308 Inspection for carbo	n				
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QP8309 Inspection for					
microcracks					
QP8310 Inspection for					
secondary transformation					
products					
QP8311 Inspection for					
intergranular oxidation					
QP8312 Inspection for					
retained austenite					
QP8313 Inspection of core					
microstructure					
QP8314 Procedure for post					
carburizing cold treatment					